

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
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SECRETARY

JOHN AUERBACH
COMMISSIONER

Michael Thaler, ADA

Norfolk County District Attorney's Office

By e-mail

September 14, 2011

Re: Comm. v. [REDACTED] State Lab nos. [REDACTED]

ADA Thaler,

Please find below a discovery package for the case noted above. The material is collated in the following manner:

- 1) the c.v.'s of the chemists
- 2) the Evidence Office receipt to the Milton Police
- 3) the inventory control cards
- 4) the Pharmaceutical Analysis sheets
- 5) the pharmacopeia pages (Micromedex)
- 6) the gas chromatography/mass spectrometry (gc/ms) data

I was the custodial chemist responsible for the chain of custody, weights and the preliminary analysis of the exhibit. Annie Dookhan operated the gc/ms for the confirmatory analysis.

If you need further clarification of this material, call me directly at (617) 983-6627.

Sincerely,

A handwritten signature in black ink, appearing to read "Michael Lawler".

Michael Lawler
Senior Chemist

Cc: A. Dookhan

Curriculum Vitae

Michael Lawler

Education:

University of Virginia, Charlottesville, Va. Bachelor of Arts in English, 1975

Harvard University, Cambridge, Ma. Master of Arts in biology, 1995

Experience:

1990-present currently Chemist III, Mass. Dept. of Public Health, Drug Lab analyst determining the identity of unknown substances and providing expert testimony in the Courts. Conduct special testing for poisons within drug exhibits. Lab Safety Officer.

2005-2008 lecturer in chemistry, Curry College, Milton, Ma.

1988-1990 New England Newborn Screening (NENS) Biochemist conducting pilot studies and validation trials of new newborn screening tests. Investigator and co-author of papers noted below. Introduced screening test for Biotinidase Deficiency. Liaison with interstate collaborators in national studies.

1983-1988 Supervised NENS urine screening lab for metabolic disorders. Conducted research in collaboration with Children's Hospital (Boston) detecting neuroblastoma, a cancer of early childhood. Conducted reference testing for rare metabolic disorders for an international audience.

1982-1983 NENS hypothyroid assay technologist with Tuft's University

1979-1981 Mass. Bay Community College, staff technologist preparing materials for the laboratory technician program, which included reagents, apparatus and maintaining stock cultures of human pathogens.

Additional education and special training

Drug Analysis, completed six week training course by senior staff within the Department of Public Health Drug Analysis Laboratory

National Laboratory Network Training Program course as Expert Witness

Qualified as an expert witness in the Massachusetts Courts and the U.S. District Court
Current Drug Trends – Multijurisdictional Drug Task Force Academy

CDC course in antibiotic resistance CDC course in cell culture

CDC course in public health response to bioterrorism

U.S. Army course in biologic warfare and terrorism

Journal Publications

Screening, 1992, 1:34-37; Lawler,M., Frederick,S., Rodriguez-Anza, S., Wolf,B., Levy,H., *Newborn Screening for Biotinidase Deficiency, Pilot Study and Follow-up of Identified Cases*

Genetic Screening, 1990, 11-18, Mitchell,M., Lawler,M., Walraven,C., Hermos,R., *To Screen or Not to Screen for Congenital Hyperplasia: Is that the Question?*

The Journal of Pediatrics, 116: 78-83, Secor-McVoy,J., Lawler,M., Schmidt, M., Ebers,D., Hart,P., Pettit,D., Blitzer,M., Wolf,B., *Partial Biotinidase Deficiency: Clinical and Biochemical Features*

Professional Affiliations

Northeastern Association of Forensic Scientists (NEAFS) since 2005

Awards

Theobald Smith Education Grant for graduate studies

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- * Responsible for the Quality Control/Quality Assurance program for the drug lab.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)
GLP/GMP course with Massachusetts Biologic Laboratory.
QC/QA training according to FDA Codes and Regulations.
GC and GC/MS courses with Agilent Technologies and Restek.
HPLC course with Waters Cooperation.
FTIR course with Spectros.
TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)
Northeastern Association of Forensics Science (NEAFS)

NO. [REDACTED] DATE ANALYZED: 07-12-11
CITY: MILTON POLICE DEPT.
OFFICER: DETECTIVE PAMELA DIGIOVANNI

DEF: [REDACTED]
AMOUNT: 25✓ SUBST: TAB
NO. CONT: 1 CONT: PB

DATE REC'D: 05/04/2011 NO. ANALYZED:

GROSS WT: 5.230✓ NET WT: 3.15
#TESTS: 1 NR
• 2 ASO

11-68
PRELIM: oxycodeine FINDINGS: oxycodeone

NO. [REDACTED] DATE ANALYZED: 07-12-11
CITY: MILTON POLICE DEPT.
OFFICER: DETECTIVE PAMELA DIGIOVANNI

DEF: [REDACTED]
AMOUNT: 8 SUBST: TABLET/BRK
NO. CONT: 1 CONT: PB

DATE REC'D: 05/04/2011 NO. ANALYZED:

GROSS WT: 3.080✓ NET WT: 0.91g
#TESTS: 1 NR
• 2 ASO

PRELIM: oxycodeone FINDINGS: oxycodeone

NO. [REDACTED] DATE ANALYZED: 07-12-11
CITY: MILTON POLICE DEPT.
OFFICER: DETECTIVE PAMELA DIGIOVANNI

DEF: [REDACTED]
AMOUNT: 6 ✓ SUBST: TAB
NO. CONT: 1 CONT: PB

DATE REC'D: 05/04/2011 NO. ANALYZED:

GROSS WT: 2.680✓ NET WT: 0.61g
#TESTS: 1 NR
• 2 ASO

PRELIM: oxycodeone FINDINGS: oxycodeone

Gum &
Gonulls

Gum &
Gonulls

Gum &
Gonulls

Sample # [REDACTED] City Milton E.O. weight 5.23

Count 25 tablets Description:

Ballistic I.D. oxycodone 30



I.D. Source micromedex blue

net = 3.151g

1 tab → 91/mg
Melt

Final I.D. oxycodone MS chemist ABD completed 7-12-11

Sample # [REDACTED] City Milton E.O. weight 3.08g

Count 8 intact tabs (2 1/2 tabs) Description: net = 0.9104

Ballistic I.D. oxycodone 30



I.D. Source micromedex blue

1 tab

→ 91/mg

Final I.D. oxycodone MS chemist ABD completed 7-12-11



11-61

Pharmaceutical Analysis Sheet

Sample # [REDACTED] City Milton E.O. weight 2.68

net = 0.6136g

Count 6 Description:

Ballistic I.D. oxycodone 30



I.D. Source micromedex blue



0.5 tablet
Melt

→ 81/mg

Final I.D. oxycodone MS chemist ABD completed 7-12-11

Drug Information

DRUG NAME: OXYCODONE HYDROCHLORIDE

INGREDIENTS: OXYCODONE HYDROCHLORIDE -- 30 MG

Color: Light Blue

NDC: 0406-8530-01

Shape: Circle

Excipients: Cellulose,
Microcrystalline ; Sodium Starch
Glycolate ; Starch,
Corn ; Lactose ; Stearic Acid ; FD&C
Blue No. 2

Imprint: M The M enclosed in a box is imprinted on one side and 30 above the score is imprinted on the reverse side. , M30 The M enclosed in a box is imprinted on one side and 30 above the score is imprinted on the reverse side. , 30 , M
30

Regulatory Status: Schedule II

Form: Oral Tablet

Availability: United States

Available-Container-Size: Bottle of
100

Product ID: 6594281

AAPCC Code: 037705 - Oxycodone
Alone or in Combination (Excluding
Combination Products with
Acetaminophen or Acetylsalicylic Acid)

Contact: Covidien Mallinckrodt

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Drug Information

DRUG NAME: OXYCODONE HYDROCHLORIDE

INGREDIENTS: OXYCODONE HYDROCHLORIDE -- 30 MG

Color: Blue

NDC: 52152-0215-02

Shape: Circle

52152-0215-11

Imprint: A; 215

Excipients: Starch, Corn ; FD&C Blue No. 2 Aluminum Lake ; Lactose (Monohydrate) ; Cellulose, Microcrystalline ; Silicon Dioxide ; Sodium Starch Glycolate ; Stearic Acid

Form: Oral Tablet

Regulatory Status: Schedule II

Available-Container-Size: Bottle of 100 , 10X10

Availability: United States

AAPCC Code: 037705 - Oxycodone Alone or in Combination (Excluding Combination Products with Acetaminophen or Acetylsalicylic Acid)

Product ID: 6527175

Contact: Actavis Totowa

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Drug Information

DRUG NAME: OXYCODONE HYDROCHLORIDE

INGREDIENTS: OXYCODONE HYDROCHLORIDE -- 30 MG

Color: Light Blue

NDC: 00603-4992-28
00603-4992-21

Shape: Circle
Imprint: 4812 The tablet is debossed with 4812 on one side and V on the reverse side. , v

UPC: 06034-99228

Form: Oral Tablet

Excipients: FD&C Blue No. 1
Aluminum Lake ; Lactose
(Monohydrate) ; Magnesium
Stearate ; Cellulose,
Microcrystalline ; Povidone ; Sodium
Starch Glycolate ; Stearic Acid

Available-Container-Size: Bottle of 500 , Bottle of 100 , Bottle of 10 , Bottle of 1000

Regulatory Status: Schedule II

AAPCC Code: 037705 - Oxycodone Alone or in Combination (Excluding Combination Products with Acetaminophen or Acetylsalicylic Acid)

Availability: United States

Product ID: 7093498

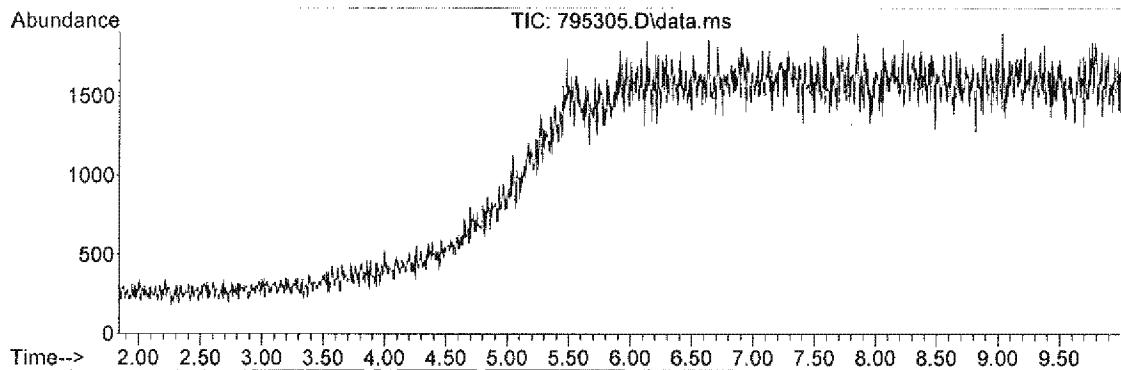
Contact: Qualitest Pharmaceuticals

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Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795305.D
Operator : ASD
Date Acquired : 11 Jul 2011 15:13
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

✓ASD
09-12-11



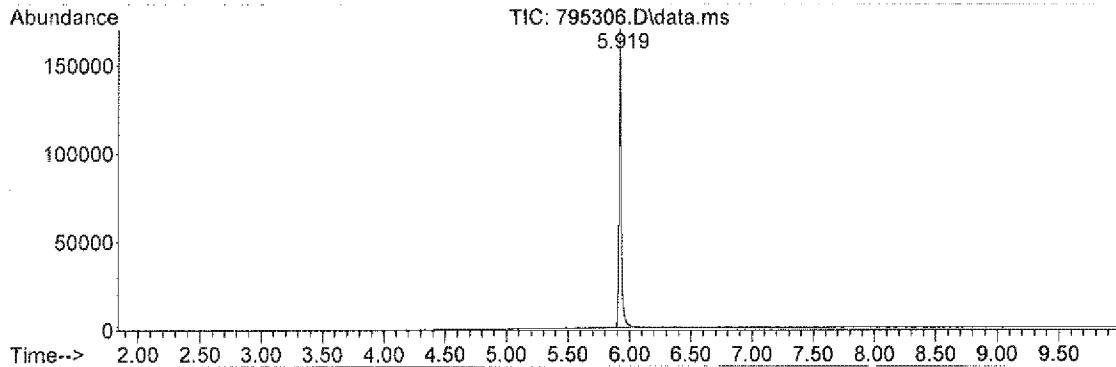
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795306.D
Operator : ASD
Date Acquired : 11 Jul 2011 15:26
Sample Name : OXYCODONE STD
Submitted by :
Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 5.919 | 224773 | 100.00 | 100.00 |

Area Percent / Library Search Report

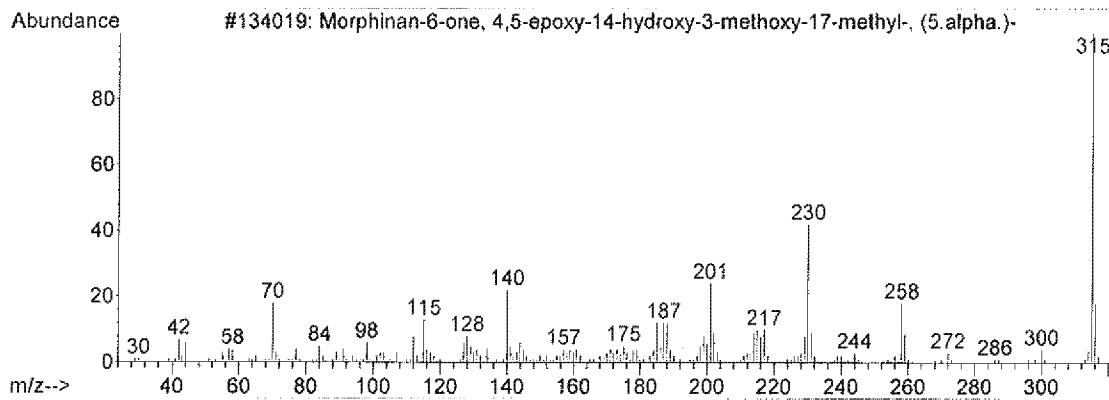
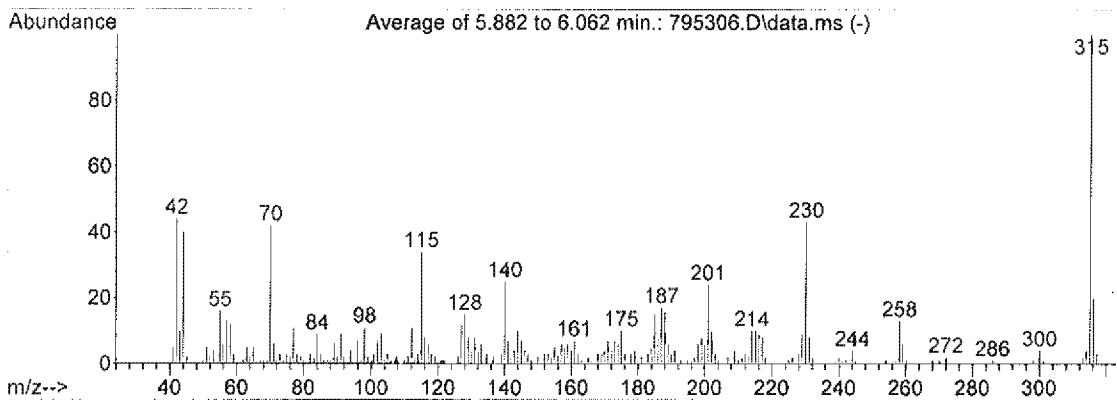
Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795306.D
 Operator : ASD
 Date Acquired : 11 Jul 2011 15:26
 Sample Name : OXYCODONE STD
 Submitted by :
 Vial Number : 6
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

RSD

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

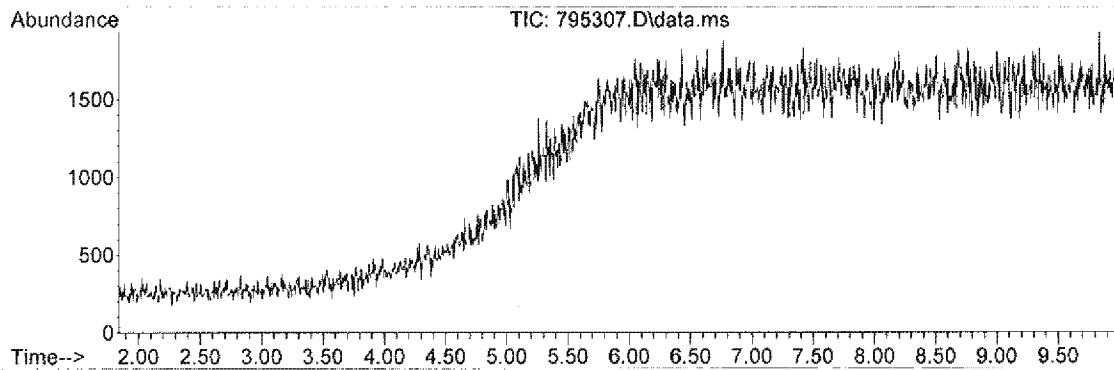
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1 | 5.92 | C:\Database\NIST05a.L | | |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |



Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795307.D
Operator : ASD
Date Acquired : 11 Jul 2011 15:39
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

AsD

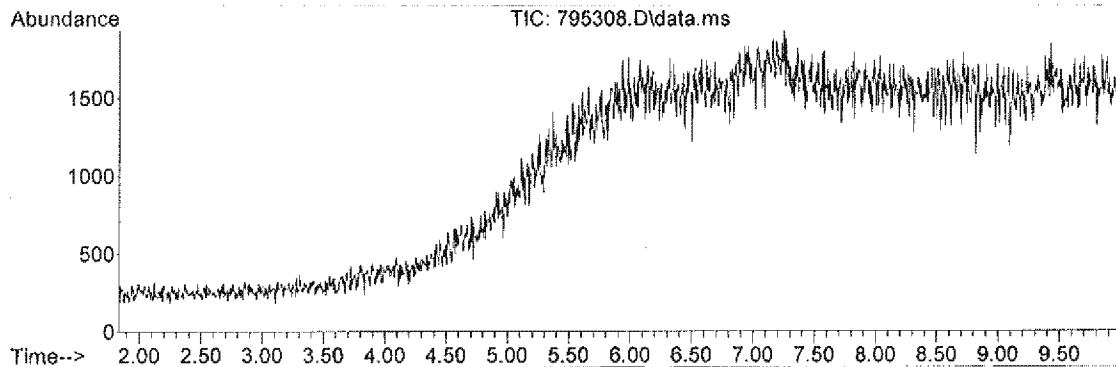


| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795308.D
Operator : ASD *ASD*
Date Acquired : 11 Jul 2011 15:51
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



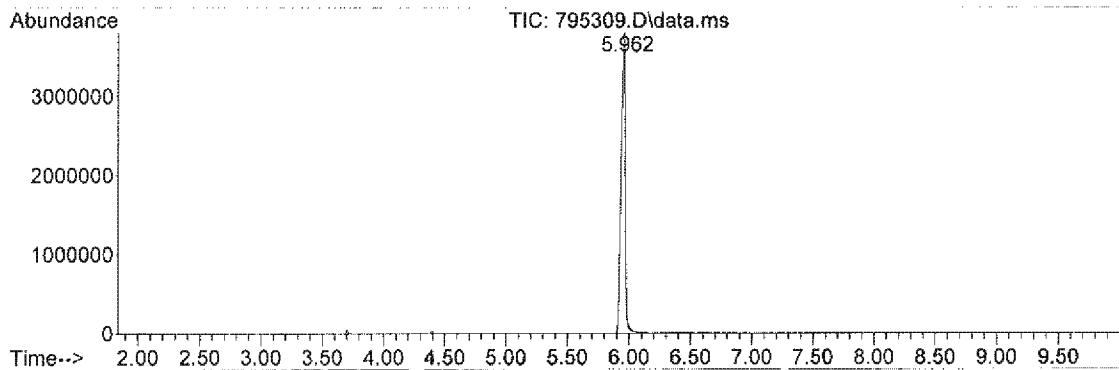
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795309.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:04
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 5.962 | 9083769 | 100.00 | 100.00 |

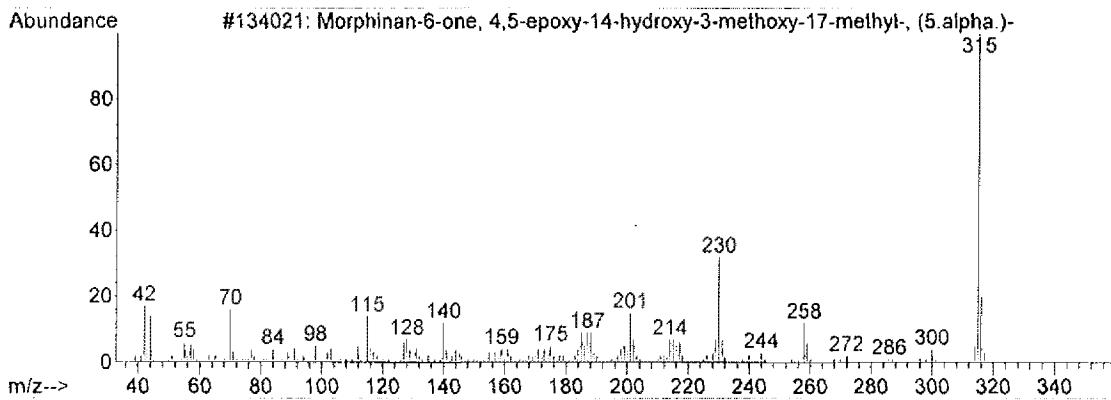
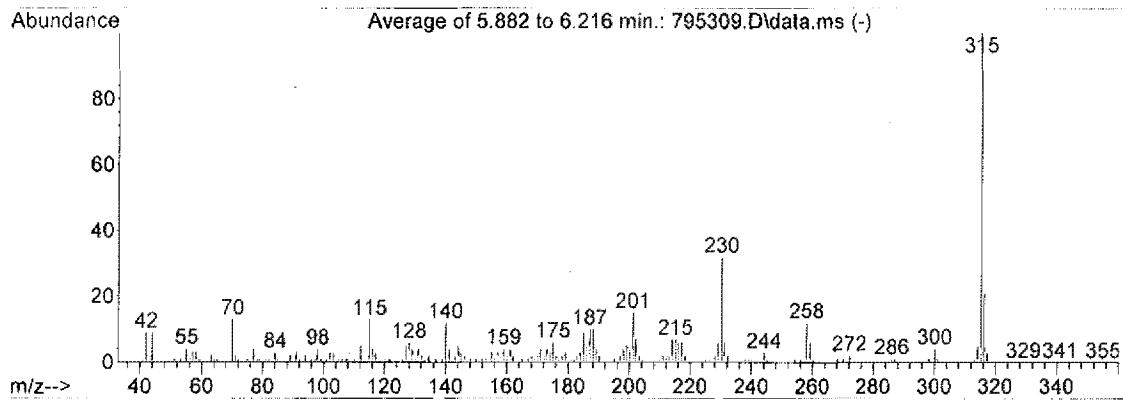
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795309.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:04
Sample Name : XXXXXXXXXX ASD
Submitted by : MGL
Vial Number : 9
AcquisitionMeth: DRUGS.M
Integrator : RTE

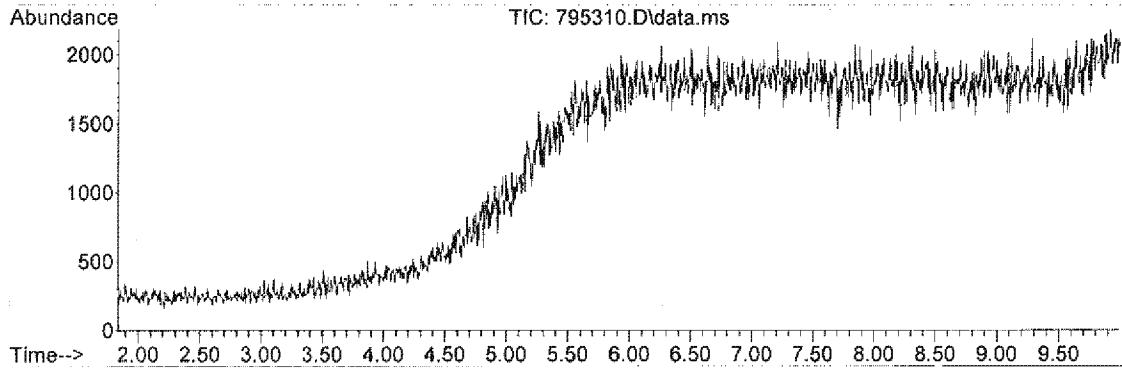
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1 | 5.96 | C:\Database\NIST05a.L | | |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |



Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795310.D
Operator : ASD *ASD*
Date Acquired : 11 Jul 2011 16:17
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

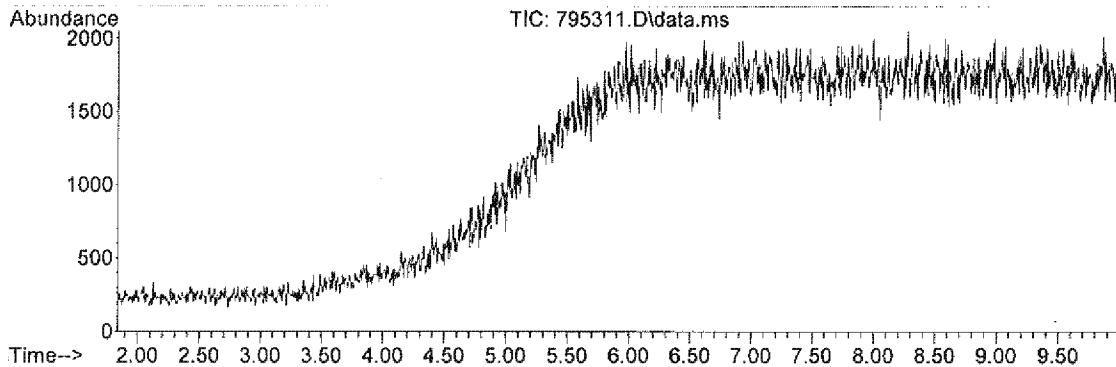
NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795311.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:29
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



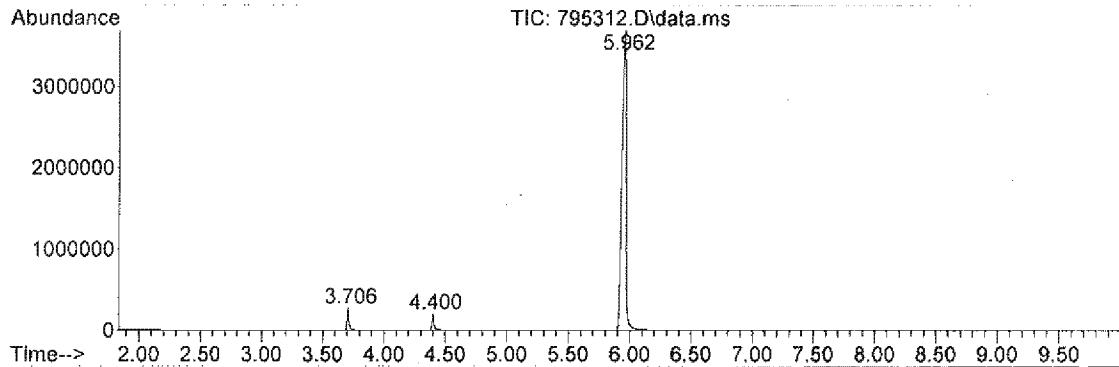
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795312.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:42
Sample Name : XXXXXXXXXX PS9
Submitted by : MGL
Vial Number : 12
AcquisitionMeth: DRUGS.M
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 3.706 | 276192 | 2.95 | 3.12 |
| 4.400 | 240384 | 2.56 | 2.71 |
| 5.962 | 8861389 | 94.49 | 100.00 |

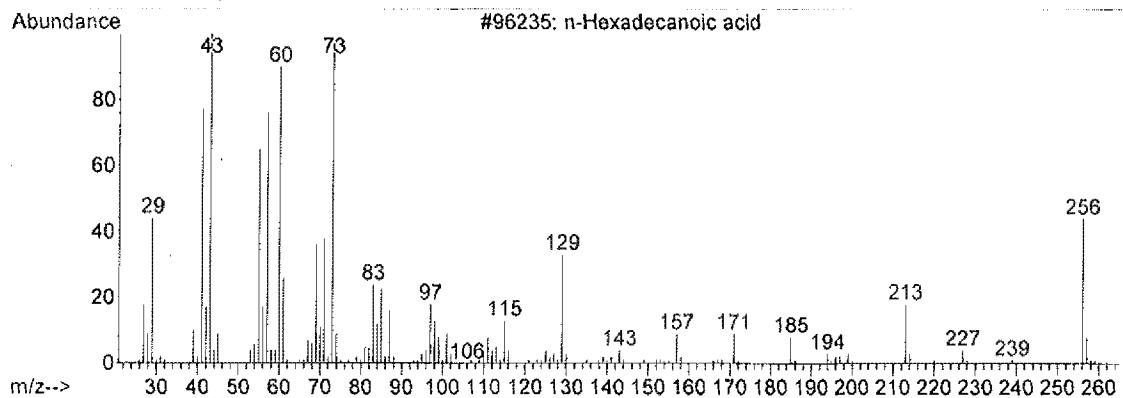
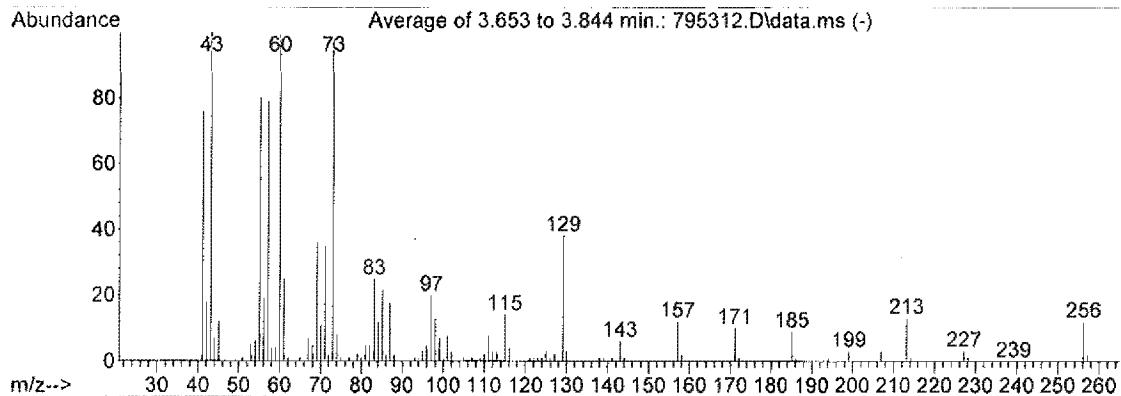
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795312.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:42
Sample Name : XXXXXXXXXX AS9
Submitted by : MGL
Vial Number : 12
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|-------------|------|
| 1 | 3.71 | C:\Database\NIST05a.L | | |
| | | n-Hexadecanoic acid | 000057-10-3 | 99 |
| | | n-Hexadecanoic acid | 000057-10-3 | 97 |
| | | Tetradecanoic acid | 000544-63-8 | 94 |

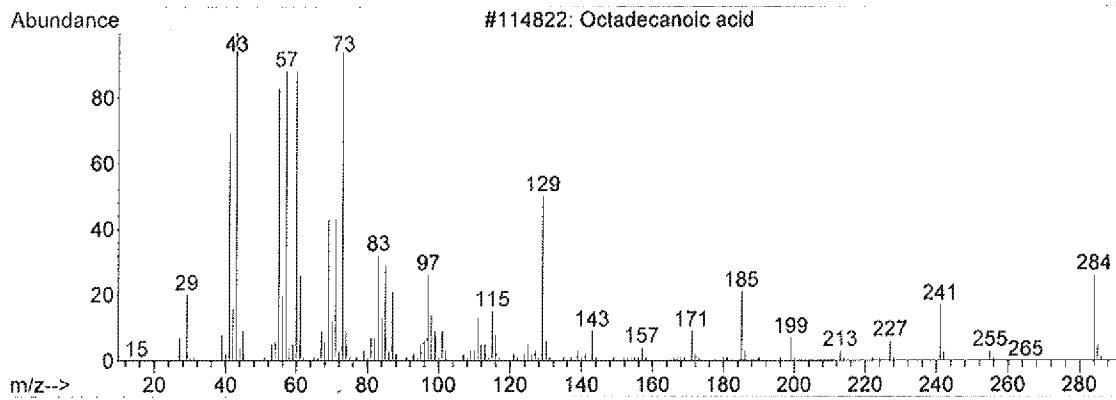
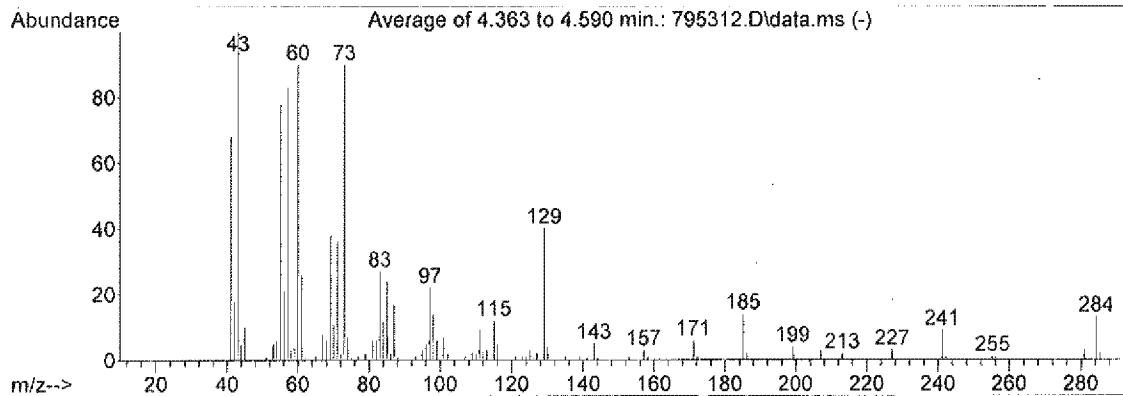


Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795312.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:42
Sample Name : XXXXXXXXXX ASD
Submitted by : MGL
Vial Number : 12
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-----------------------|-------------|------|
| 2 | 4.40 | C:\Database\NIST05a.L | | |
| | | Octadecanoic acid | 000057-11-4 | 99 |
| | | Octadecanoic acid | 000057-11-4 | 95 |
| | | Octadecanoic acid | 000057-11-4 | 95 |



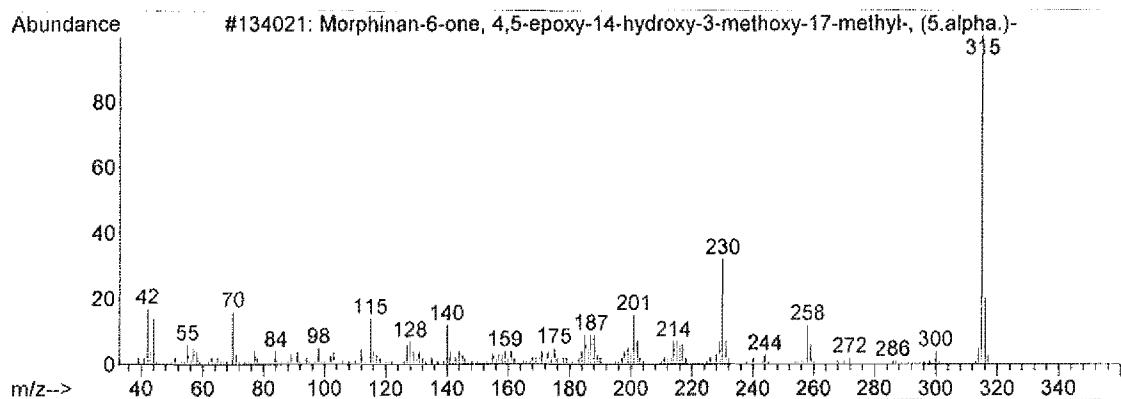
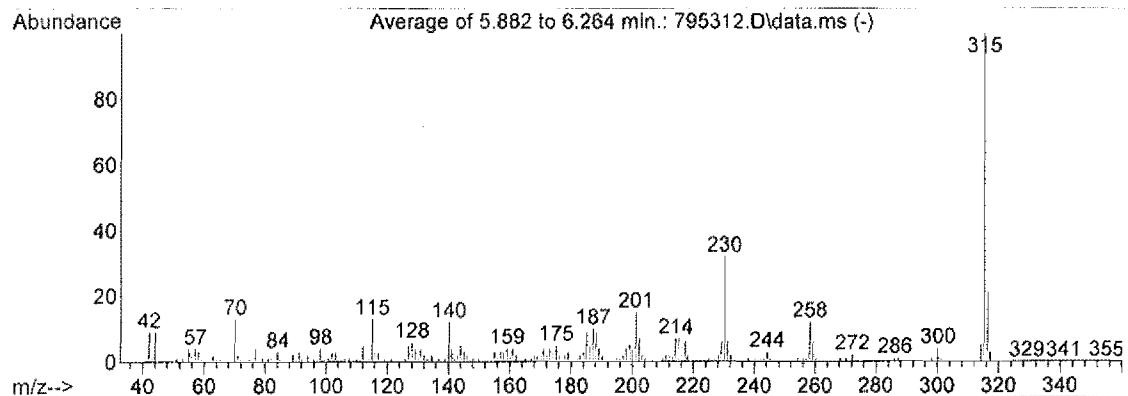
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795312.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:42
Sample Name : XXXXXXXXXX ASD
Submitted by : MGL
Vial Number : 12
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------------|-------------|------|
| 3 | 5.96 | C:\Database\NIST05a.L | | |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |

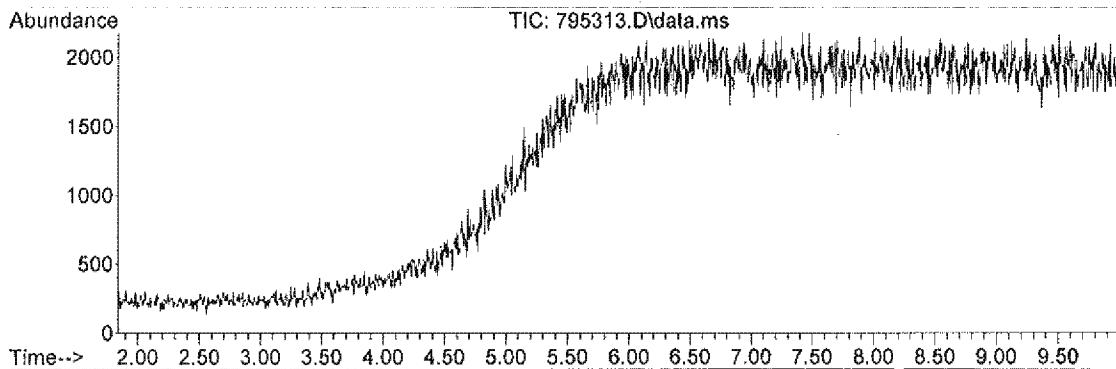


Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795313.D
Operator : ASD
Date Acquired : 11 Jul 2011 16:54
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

PSO



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

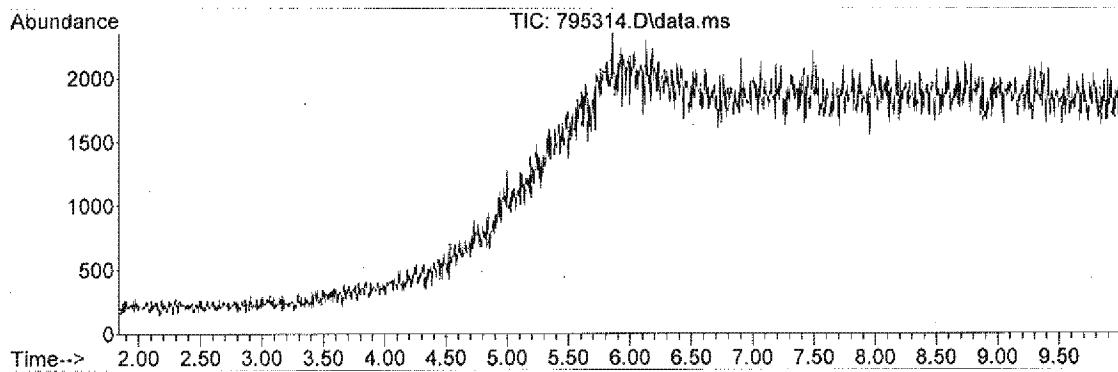
NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795314.D
Operator : ASD
Date Acquired : 11 Jul 2011 17:07
Sample Name : BLANK
Submitted by : MGL
Vial Number : 1
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



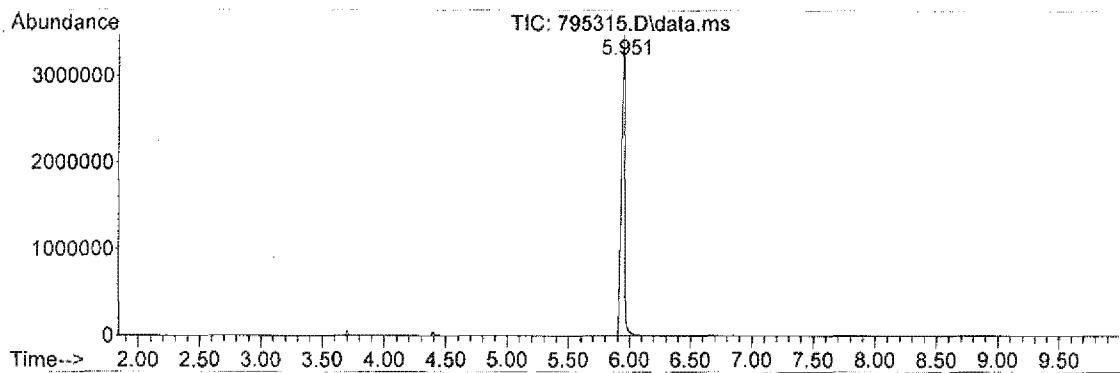
| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795315.D
Operator : ASD ASD
Date Acquired : 11 Jul 2011 17:20
Sample Name : XXXXXXXXXX
Submitted by : MGL
Vial Number : 15
AcquisitionMeth: DRUGS.M
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|---------|--------|---------|
| 5.951 | 6891738 | 100.00 | 100.00 |

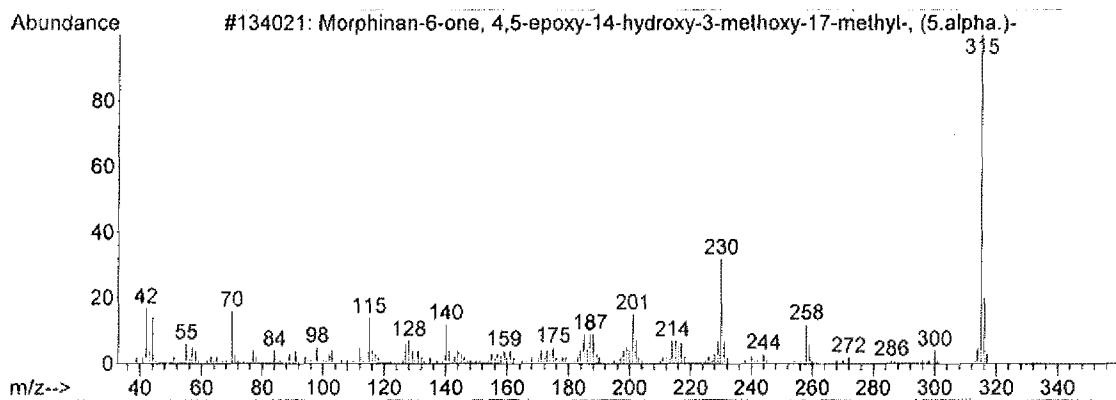
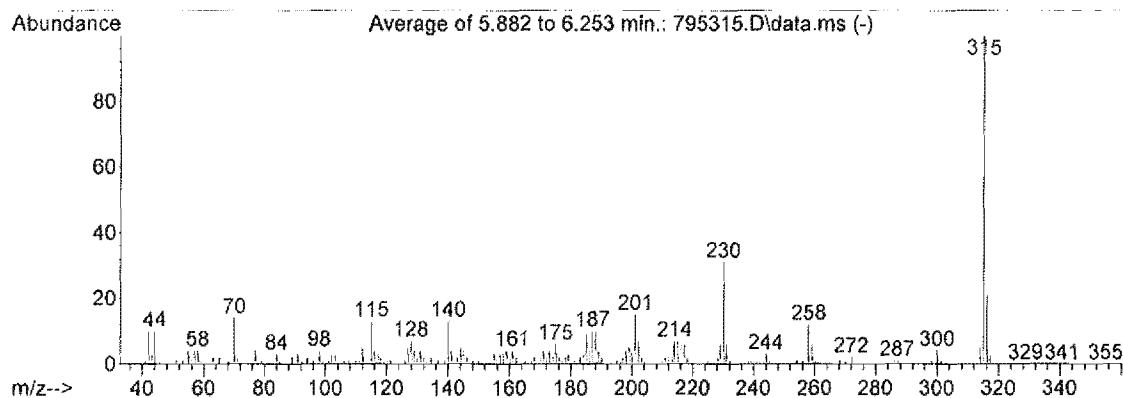
Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795315.D
Operator : ASD
Date Acquired : 11 Jul 2011 17:20
Sample Name : XXXXXXXXXX PSD
Submitted by : MGL
Vial Number : 15
AcquisitionMeth: DRUGS.M
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 80
C:\Database\PMW_TOX2.L

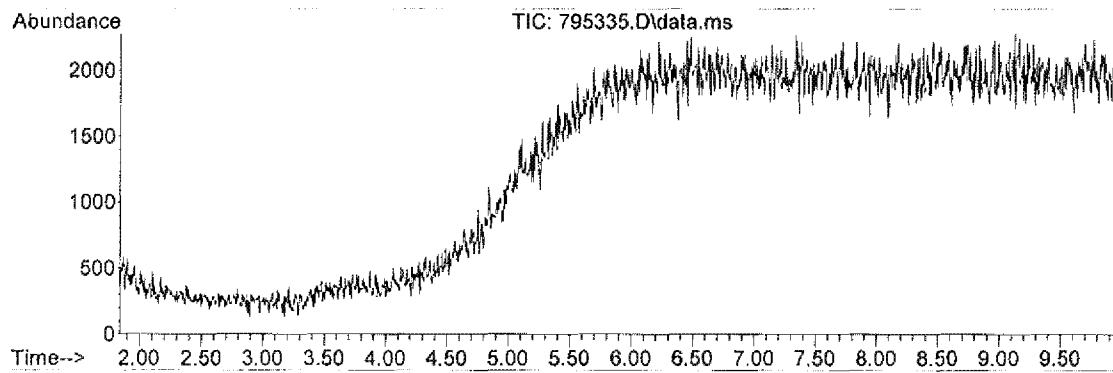
| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1 | 5.95 | C:\Database\NIST05a.L | | |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |



Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795335.D
Operator : ASD *RSD*
Date Acquired : 11 Jul 2011 21:33
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

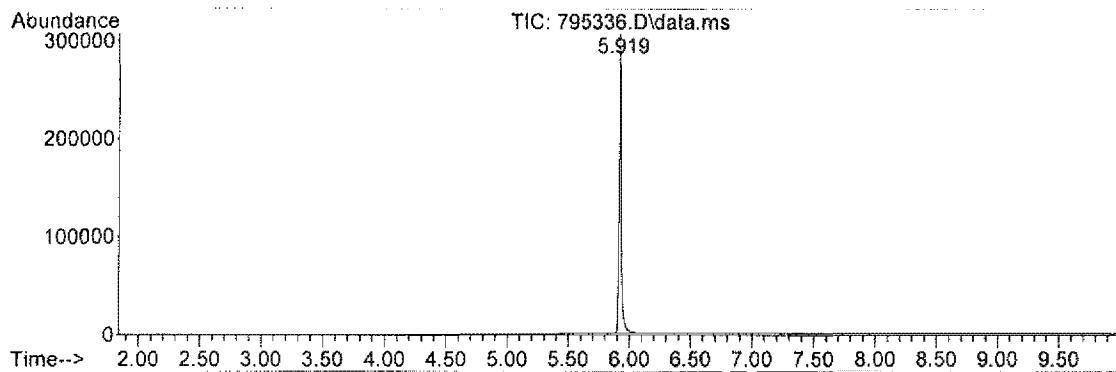
NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795336.D
Operator : ASD
Date Acquired : 11 Jul 2011 21:46
Sample Name : OXYCODONE STD
Submitted by :
Vial Number : 6
AcquisitionMeth: DRUGS.M
Integrator : RTE

ASD



| Ret. Time | Area | Area % | Ratio % |
|-----------|--------|--------|---------|
| 5.919 | 395356 | 100.00 | 100.00 |

Area Percent / Library Search Report

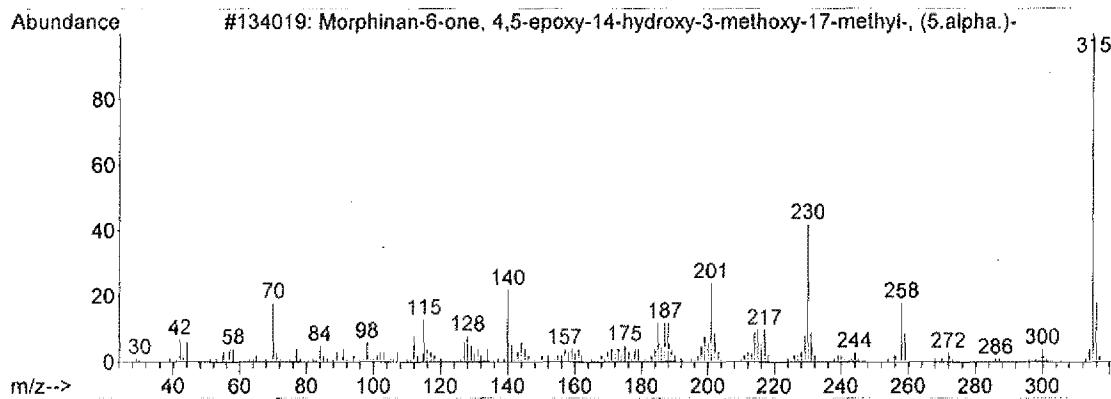
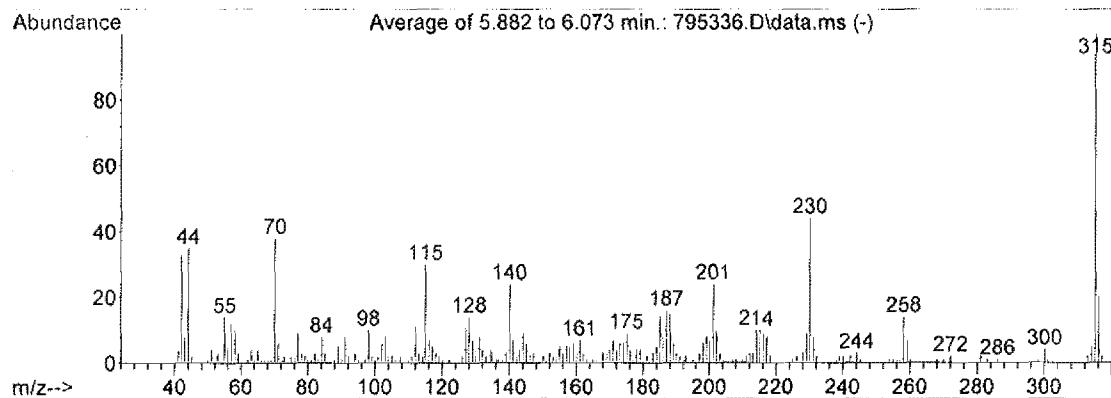
Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795336.D
 Operator : ASD
 Date Acquired : 11 Jul 2011 21:46
 Sample Name : OXYCODONE STD
 Submitted by :
 Vial Number : 6
 AcquisitionMeth: DRUGS.M
 Integrator : RTE

PSO

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 80
 C:\Database\PMW_TOX2.L

| PK# | RT | Library/ID | CAS# | Qual |
|-----|------|-------------------------------------|-------------|------|
| 1 | 5.92 | C:\Database\NIST05a.L | | |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |
| | | Morphinan-6-one, 4,5-epoxy-14-hydro | 000076-42-6 | 99 |

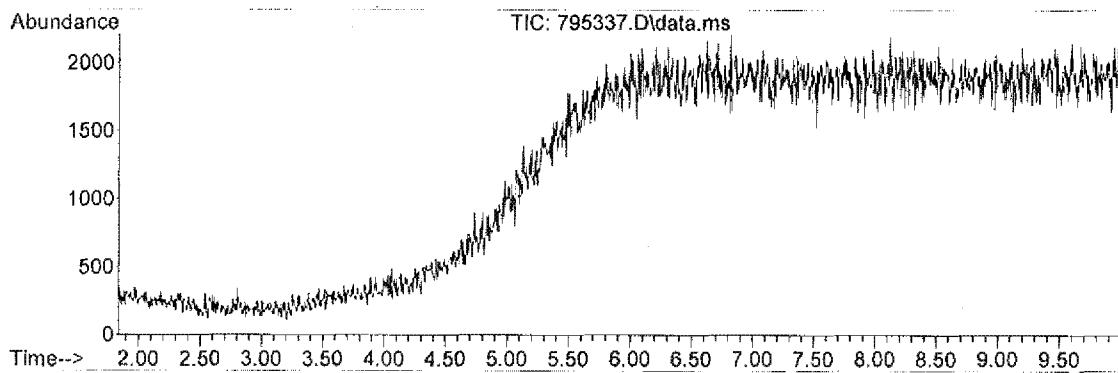


Area Percent / Library Search Report

Information from Data File:

File Name : C:\msdchem\1\System7\07_11_11\795337.D
Operator : ASD
Date Acquired : 11 Jul 2011 21:58
Sample Name : BLANK
Submitted by :
Vial Number : 2
AcquisitionMeth: DRUGS.M
Integrator : RTE

PSO



| Ret. Time | Area | Area % | Ratio % |
|-----------|------|--------|---------|
|-----------|------|--------|---------|

NO INTEGRATED PEAKS